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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/904,324	07/12/2001	Niilo Musikka	34648-00467USPT	1809
27045	7590	02/24/2005	EXAMINER	
ERICSSON INC. 6300 LEGACY DRIVE M/S EVR C11 PLANO, TX 75024			CHOU, ALBERT T	
			ART UNIT	PAPER NUMBER
			2662	

DATE MAILED: 02/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary

Application No. 09/904,324	Applicant(s) MUSIKKA, NILO
Examiner Albert T. Chou	Art Unit 2662

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE Three MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 07-12-2001.
- 2a) ☐ This action is **FINAL**.
- 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4 and 10-16 is/are rejected.
- 7) ☒ Claim(s) 5-9, 17 and 18 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 07-12-2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-4 and 10-12 are rejected under 35 U.S.C. 102(e) as being anticipated by Le et al. (US Patent Number: 6,556,820), hereinafter referred to as Le.

Regarding claim 1, Le teaches a hybrid **GSM/UMTS Core Network** (Figure 9; A telecommunications system), connecting to an **Internet/Intranet** network (Figure 9; IP-based), provides both **GSM Radio Access 920** (Col. 10, lines 50-51; an IP-based GSM System) and **UMTS Radio Access 910** (Col. 10, lines 50-51; a UMTS system) to other multimedia networks. The hybrid **GSM/UMTS Core Network** is coupled to IP-based **GSM Radio Access 920** and **UMTS Radio Access 910** and forms a common IP network (Figure 9; col. 10, lines 50-54; a connection connecting both said GSM system and said UMTS system to a common network).

Regarding claim 2, Le teaches the hybrid GSM/UMTS Core Network wherein IP-based GSM system and UMTS system are connected to **3G MSC/VLR 812** and **3G SGSN 814** (Figure 8; col. 10, lines 28-32; said connection comprises at least one IP-router).

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Regarding claim 3, Le teaches the IP-based **GSM Radio Access 920** includes a plurality of **BTS 824** and **BSC 820** (Figure 8; col. 10, lines 19-23; said IP-based GSM system includes a plurality of GSM system elements); the **UMTS Radio Access 920** includes a plurality of **Node B 826** and **RNC 822** (Figure 8; col. 10, lines 19-23; said UMTS system includes a plurality of UMTS system elements); and **3G MSC/VLR 812** and **3G SGSN 814** provide Interworking function to allow **RNC 822** to communicate with **BSC 820** (Figures 8 & 9; col. 10, lines 28-22; any of said plurality of GSM system elements and any of said plurality of UMTS system elements are capable of communicating with any other of said element via said common network).

Regarding claim 4, Le teaches the **PSTN/ISDN Networks 850** are coupled to the **3G MSC/VLR 812** (Figure 8; Col. 10, lines 38-39; uses a common Media Gateway MGW), which provides **A-interface** over **816** to GSM system and **Iu-interface 810** to UMTS system (Figure 8; col. 10, lines 18-20; a user plane for both the GSM system and the UMTS system).

Regarding claim 10, Le teaches that a hybrid **GSM/UMTS Core Network** is incorporated in a hybrid **Communication System 900** (Figure 9; said system is incorporated in a mobile communications network), which comprises **Internet/Intranet** and **GSM/UMTS Core Network** (Figure 9, col. 10, lines 50-54; the network comprises a plurality of said systems). The **GSM/UMTS Core Network** and **Internet/Intranet** are connected via the common IP network (Figure 9; each of said plurality of systems is connected via said common IP network).

Regarding claim 11, Le teaches that a hybrid **GSM/UMTS Core Network** includes a connection to a **PSTN** (Figures 8 & 9; col. 10, lines 38-39; said system includes a connection to a PSTN). The hybrid **Communication System 900**, comprising **GSM/UMTS Core Network**, **GSM Radio Access 920** and **UMTS Radio Access 910 / Node B 828** (Figure 8; an RBS), allows a dual or multiple mode **GSM-UMTS Terminal 930** to initiate a call to the **PSTN** (Figures 8 & 9; col. 10, lines 60-64; system is capable of carrying compressed speech from a mobile station associated with an RBS to the PSTN).

Regarding claim 12, Le teaches that a dual or multiple modes **GSM-UMTS Terminal 930** is capable of initiating a call to the **PSTN** via an **A-interface 816** of IP-based GSM system (Figures 8 & 9; col. 10, lines 19-20, lines 60-64; system is capable of carrying compressed speech via an A-interface of said IP-base GSM system).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 13-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Le et al. (US Patent Number: 6,556,820), hereinafter referred to as Le.

Regarding claim 13, Le teaches a hybrid **Communication System 900** (Col. 10, line 50) wherein **GSM/UMTS Core Network** providing connections to an

Internet/Intranet (Figure 9; IP-based GSM system) and a **PSTN/ISDN** network (Figures 8 & 9; col. 10, lines 38-39; a connector to a Public Switched Telephone Network PSTN). The **GSM/UMTS Core Network** is coupled to **GSM Radio Access 920** (Col. 10, lines 50-51; an IP-based GSM System) and **UMTS Radio Access 910** (Col. 10, lines 50-51; a UMTS system).

Regarding "a common IP network connecting all of said plurality of sites", Le does not disclose a mobile telecommunications network comprising a plurality of switch sites. However, Le discloses that a combination of two, or, more systems are one of the most likely concepts to realize the 3rd generation of mobile communications (Col. 10; lines 52-54; a plurality of switch sites). Since the **GSM/UMTS Core Network** is an IP-based network, it would have been obvious to one of ordinary skill in the art to connect Le's network to another IP-based switch sites or networks (a plurality of sites) to from a common IP network.

Regarding claim 14, Le teaches the hybrid **GSM/UMTS Core Network** wherein **GGSN 844** is coupled to **Packet Data Networks 840** or **Internet/Intranet** (Figures 8 & 9; col. 10, lines 36-38; at least one IP-router connecting the plurality of sites to said common IP network).

Regarding claim 15, Le teaches the IP-based **GSM Radio Access 920** includes a plurality of **BTS 824** and **BSC 820** (Figure 8; col. 10, lines 19-23; said IP-based GSM system includes a plurality of GSM system elements); the **UMTS Radio Access 910** includes a plurality of **Node B 826** and **RNC 822** (Figure 8; col. 10, lines 19-23; said UMTS system includes a plurality of UMTS system elements); and **3G MSC/VLR 812**

and **3G SGSN 814** provide Interworking function to allow **RNC 822** to communicate with **BSC 820** (Figures 8 & 9; col. 10, lines 28-22; any of said plurality of GSM system elements and any of said plurality of UMTS system elements are capable of communicating with any other of said element via said common network).

Regarding claim 16, Le teaches the **PSTN/ISDN Networks 850** are coupled to the **3G MSC/VLR 812** (Figure 8; Col. 10, lines 38-39; a common Media Gateway MGW), which provides **A-interface** over **816** to GSM system and **Iu-interface 810** to UMTS system (Figure 8; col. 10, lines 18-20; a user plane for each GSM system and each UMTS system).

Allowable Subject Matter

5. Claims 5-9 and 17-18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

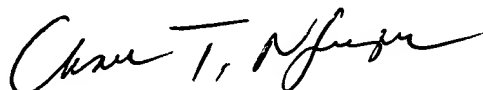
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Albert T. Chou whose telephone number is 571-272-6045. The examiner can normally be reached on 8:30 - 17:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou can be reached on 571-272-3088. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AC
Albert T. Chou

February 15, 2005



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